

PATENT APPLICATION  
DOCKET NO. 46586-2

WHAT IS CLAIMED IS:

1       1. A telecommunications system employing packetized  
2       communications for voice and data, said telecommunications  
3       system comprising:

4           a code division multiple access wireless  
5       telecommunications network having at least one mobile station  
6       and a base transceiver station in wireless packetized  
7       communications therebetween;

8           an access control server in communication with said base  
9       transceiver station; and

10          packet service means, within said access control server,  
11       for servicing said wireless packetized communications.

1       2. The telecommunications system according to claim 1,  
2       further comprising:

3           a mobile services switching center in communication  
4       with said base transceiver stations, said mobile services  
5       switching center servicing circuit-switched communications  
6       with said at least one mobile station within said code  
7       division multiple access telecommunications network.

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1       3. The telecommunications system according to claim 2,  
2 wherein said circuit-switched communications with said mobile  
3 services switching center comprise voice only communications.

1       4. The telecommunications system according to claim 1,  
2 wherein said packet service means within said access control  
3 server services packet-switched data only communications with  
4 said at least one mobile station within said code division  
5 multiple access telecommunications network.

1       5. The telecommunications system according to claim  
2 1, wherein said access control server is an Internet Protocol  
3 (IP) entity comprising means therein for setting up and  
4 maintaining at least one packet data session.

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1        6. A method for providing packetized communications  
2        within a telecommunications system having a Mobile Services  
3        Switching Center (MSC), said method comprising the steps of:  
4              transceiving a packetized communication between a  
5        mobile station and a base transceiver station; and  
6              processing, by an access control server within said  
7        telecommunications system, said packetized communication,  
8        said access control server being connected to said base  
9        transceiver station to transceive said packetized  
10      communication therebetween, said packetized communication  
11      bypassing said MSC.

1        7. The method according to claim 6, wherein said step  
2        of transceiving further comprises the steps of:  
3              transmitting, by said mobile station, said  
4        packetized communication to said base transceiver station;  
5        and  
6              forwarding, by said base transceiver station, said  
7        packetized communication to said access control server, said  
8        packetized communication bypassing said MSC.

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1       8. The method according to claim 6, wherein said step  
2 of transceiving further comprises the steps of:

3             receiving, at said access control server, said  
4 packetized communication; and

5             forwarding, by said access control server, said  
6 packetized communication to said base transceiver station,  
7 said packetized communication bypassing said MSC.

1       9. A method for providing packetized communications for  
2 voice and data within a code division multiple access  
3 network, said method comprising the steps of:

4             receiving by a base transceiver station, a code division  
5 multiple access signal from a mobile station, said signal  
6 including a packetized communication;

7             forwarding, by said base transceiver station, said  
8 packetized communication to an access control server within  
9 said code division multiple access network; and

10          accepting, by said access control server, said  
11 packetized communication.

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1        10. A methodology for the migration of a given  
2        telecommunications system using a Mobile Services Switching  
3        Center (MSC) to a packet-switched telecommunications system,  
4        said methodology comprising the steps of:

5                adding an access control server to said given  
6        telecommunications system;

7                providing interconnections to said access control -  
8        server, said interconnections connecting said access control  
9        server to at least one base station, said base station being  
10      in wireless communication with at least one mobile station,  
11      said at least one base station having a circuit-switched  
12      connection to said MSC; and

13                transceiving, between said access control server  
14      and said at least one base station, a packetized  
15      communication, said packetized communication bypassing said  
16      MSC, whereby said interconnections for packetized  
17      communications generate said packet-switched  
18      telecommunications system.

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1           11. The methodology according to claim 10, wherein said  
2        given telecommunications system utilizes a cdma2000  
3        architecture.

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